BRUHATH BANGALURE MAHANAGAR PALIKE

Name of Work: Asphalting to roads at Munikondappa layout and surrounding areas in ward no.14 Bagalagunte

Job Code: 014-19-000024 — **Est. Cost.250.00 Lakh**

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	Removing and Refixing stone slabs of drains and pointing in C.M (1:3)..(Pg:27, It.No-5.33, PWD SR: 2018-19)								
	Munikondappa layout 7th cross		2	30	0.90		54.00		
	Ramahai layout		2	607	1.20		1456.80		
		Sqm					1509.30	111.30	**167985.09**
2	Removing and reseting of Kerb stone .(Pg:270, It.No-37.57, PWD SR: 2018-19)								
	Ramahai layout								
	LHS		1	437			437.00		
		RMT					437.00	104.94	**45858.8**
3	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter (Pg:143, It.No-19.1, PWD SR: 2018-19)								
	Munikondappa layout		2	30	0.60	0.55	19.80		
	Cross road		2	75	0.60	0.55	49.50		
	Ramahai layout		2	670	0.60	0.55	442.20		
	NH Opp road		2	260	0.60	0.55	171.60		
	13th main road		2	125	0.60	0.55	82.50		
	1st main		2	50	0.60	0.55	33.00		
	cross road		2	250	0.60	0.55	165.00		
	15th A cross		2	215	0.60	0.55	141.90		
	1st Main road		2	240	0.60	0.55	158.40		
	Asphalting								
	Cross road		2	35	1.00	0.30	21.00		
	Ramahai layout		2	670	1.00	0.30	402.00		
	NH Opp road		2	260	1.00	0.30	156.00		
	13th main road		2	125	1.00	0.30	75.00		
	1st main		2	50	1.00	0.30	30.00		
	cross road		2	250	1.00	0.30	150.00		
	15th A cross		2	215	1.00	0.30	129.00		
	1st Main road		2	95	1.00	0.30	57.00		
	1st Main road		2	240	1.00	0.30	144.00		
	Munikondappa layout		2	25	1.00	0.30	15.00		
	2nd cross maramma temple		2	200	1.00	0.30	120.00		
		Cum					2561.46	235.76	**603889.81**

4	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means .A. Lime Concrete, cement concrete grade M-10 a (Pg:271, It.No-18.17, PWD SR: 2018-19)								
	Ramahai layout		2	500	0.60	0.60	359.64		
		Cum					359.64	579.20	**208303.5**
5	KSRRB M2900- PCC M10 in Foundation KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications. MORTH Specification No. 408 (Pg:254, It.No-34.1 PWD SR: 2018-19)								
	Ramahai layout		2	500	0.90	0.10	89.91		
		Cum					89.91	4479.56	**402757.2**
6	Providing laying plain/ reinforced cement concrete for side drain using M20 nominal mix concrete with OPC at 3000kgs. with 20mm and downsize granite metal coarse aggregates at 0..69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for waiis and bottom including centering, shuttering ,cost of materials hom of machinery ,curing etc., complete excluding cost of steel as per morth specification No. 1500, 1700, 2200.including ,cost of materials labour .HOM complete as per specification -do-Wall & bottom thickness 15cm (Pg:271, It.No-37.59.2 PWD SR: 2018-19)								
	For Drain Bed								
	Ramahai layout								
			2	500	0.90	0.15	135.00		
	For Drain wall								
			4	500	0.15	0.90	270.00		
		Cum					404.60	7070.20	**2860567.6**
7	Providing T.M.T. steel reinforcement for R.C,C work including straightening. cutting. bending. hooking. placing in position. lapping and or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) including cost of materaial ,labour , HOM complete as per specifications. MORTH specifications. No.1600 & 2200-do-TMT Bars Fe 500 (Pg:239/29.29.2)PWD SR: 2018-19)								
			404.6			70	28.32		
		Ton					28.32	73992.24	**2095460.24**
8	**Providing & laying RCC Drain Slab of 100mm (DATA RATE)**								
	Ramahai layout								
	LHS		2	540	0.90		972.00		
		Sqm					972.00	2208.00	**2146176.0**
9	Providing and fixing pre cast solid concrete kerb size 450x150x500 mm out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., complete (Pg:27, It.No-5.29.2 PWD SR: 2018-19)								
	Ramahai layout		2	708	(708/0.45)		3146.67		
	Munikondappa layout		2	48.5	(48.5/0.45)		215.56		

2nd cross maramma temple		2	195	(195/0.45)	866.67		
NH Opp road		2	257	(257/0.45)	1142.22		
13th main road		2	125	(125/0.45)	555.56		
1st main		2	40	(40/0.45)	177.78		
	Nos				6104.00	467.46	**2853375.8**
10	Providing and applying spray painting in two coats (excluding priming c o a t) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. (Pg:124, It.No-15.82 PWD SR: 2018-19)							
Ramahai layout		2	708		0.40	566.40		
Munikondappa layout		2	48.5		0.40	38.80		
2nd cross maramma temple		2	195		0.40	156.00		
NH Opp road		2	257		0.40	205.60		
13th main road		2	125		0.40	100.00		
1st main		2	40		0.40	32.00		
	Sqm					1098.00	58.30	**64013.4**
11	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Pg:180, It.No-24.1 PWD SR: 2018-19)							
Ramahai layout		2	708		0.40	566.40		
Munikondappa layout		2	48.5		0.40	38.80		
2nd cross maramma temple		2	195		0.40	156.00		
NH Opp road		2	257		0.40	205.60		
13th main road		2	125		0.40	100.00		
1st main		2	50		0.40	40.00		
	Sqm					1098.00	84.80	**93110.4**
12	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. (Pg:158, It.No-21.2 PWD SR: 2018-19)							
Ramahai layout		1	690	9.50		6555.00		
Munikondappa layout		1	100	6.50		650.00		
2nd cross maramma temple		1	195	9.50		1852.50		
NH Opp road		1	257	9.50		2441.50		
13th main road		1	125	6.00		750.00		
1st main		1	40	6.00		240.00		
15th A cross		1	204	6.00		1224.00		
	Sqm					13712.30	5.30	**72675.19**

13 Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Pg:155, It.No-20.18 PWD SR: 2018-19)

Asphalting								
widening portion								
Ramahai layout		2	690	1.00	0.25	345.00		
Munikondappa layout		2	100	1.00	0.25	50.00		
2nd cross maramma temple		2	195	1.00	0.25	97.50		
NH Opp road		2	257	1.00	0.25	128.50		
13th main road		2	125	1.00	0.25	62.50		
1st main		2	40	1.00	0.25	20.00		
15th A cross		2	250	1.00	0.25	125.00		
4th cross road		2	200	1.00	0.25	100.00		
Cross road		2	221	1.00	0.25	110.50		
1st Main road		2	350	1.00	0.25	175.00		
	Cum					1213.94	2001.28	**2429433.8**

14 Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (Pg:158 It.No-21.6 PWD SR: 2018-19)

Asphalting								
widening portion								
Ramahai layout		2	690	1.00		1380.00		
Munikondappa layout		2	100	1.00		200.00		
2nd cross maramma temple		2	195	1.00		390.00		
NH Opp road		2	257	1.00		514.00		
13th main road		2	125	1.00		250.00		
1st main		2	40	1.00		80.00		
15th A cross		2	250	1.00		500.00		
4th cross road		2	200	1.00		400.00		
Cross road		2	221	1.00		442.00		
1st Main road		2	350	1.00		700.00		
		2	211	1.00		422.00		
	Sqm					5278.00	29.68	**156651.0**

15 Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting thehot mix to worksite, laying to the required grade, level and alignment, rolling with, smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. (Pg:160 It.No-21.17.3 PWD SR: 2018-19)

Asphalting								
widening portion								
Ramahai layout		2	690	1.00	0.05	69.00		
Munikondappa layout		2	100	1.00	0.05	10.00		

	2nd cross maramma temple		2	195	1.00	0.05	19.50		
	NH Opp road		2	257	6.90	0.05	177.33		
	13th main road		2	125	1.00	0.05	12.50		
	1st main		2	40	1.00	0.05	4.00		
	15th A cross		2	250	1.00	0.05	25.00		
	4th cross road		2	200	1.00	0.05	20.00		
	Cross road		2	221	1.00	0.05	22.10		
	1st Main road		2	350	1.00	0.05	35.00		
		Cum					392.65	6371.66	**2501832.3**
16	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications (Pg:158, It No-21.7) PWD SR: 2018-19								
	Ramahai layout		1	690	9.50		6555.00		
	Munikondappa layout		1	100	6.50		650.00		
	2nd cross maramma temple		1	195	9.50		1852.50		
	NH Opp road		1	257	9.50		2441.50		
	13th main road		1	125	6.00		750.00		
	1st main		1	40	6.00		240.00		
	15th A cross		1	204	6.00		1224.00		
		Sqm			For BC		13712.30		
					For BM		13712.30		
							27424.60	**12.72**	**348840.9**
17	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects complete as per specifications.(Pg:162, It No-21.23.4) PWD SR: 2018-19								
	Ramahai layout		1	690	9.50	0.04	262.20		
	Munikondappa layout		1	100	6.50	0.04	26.00		
	2nd cross maramma temple		1	195	9.50	0.04	74.10		
	NH Opp road		1	257	9.50	0.04	97.66		
	13th main road		1	125	6.00	0.04	30.00		
	1st main		1	40	6.00	0.04	9.60		
	15th A cross		1	204	6.00	0.04	48.96		
		CUM					548.49	8244.68	**4522141.0**

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
18	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Pg:182, It.No-24.15 PWD SR 2018-19)								
	For Asphalt road	Sqm							
	1st Munikondappa layout		2.5	377.00	0.10		94.25		
	Cross Road		2.5	220.00	0.10		55.00		
	16th cross havnoor layout		2.5	113.00	0.10		28.25		
	15th cross road		2.5	194.00	0.10		48.50		
	14th havnoor road		2.5	159.00	0.10		39.75		
	13th cross		2.5	190.00	0.10		47.50		
	12th cross		2.5	193.00	0.10		48.25		
	11th cross		2.5	183.00	0.10		45.75		
	1st cross		2.5	120.00	0.10		30.00		
	2nd cross		2.5	268.00	0.10		67.00		
	3rd cross		2.5	182.00	0.10		45.50		
	Cross Roads		2.5	240.00	0.10		60.00		
	Cross Roads		2.5	200.00	0.10		50.00		
							659.75	454.74	300014.7
	TOTAL								**21873208.96**
	GST 12%								**2624785.08**
	PMC 1%								**250000.00**
	DPR 1%								**250000.00**
19	**Miscellaneous and unforseen Charges**								**2005.96**
								Total	**25000000.00**

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary

2 The Estimate is prepared as per the PWD SR 2018-19 & the Approved Data Rate

3 The Provision made in estimate are adequate and essential

4 This area comes under BBMP limits.

Asst Engineer
Ward No: 14
BBMP

Asst Executive Engineer
Bagalagunte Sub-division
BBMP

Executive Engineer
Dasarahalli-division
BBMP

ADMINISTRATIVELY SANCTIONED FOR
(Rupees 250.00 Lakh (Two Hundred Lakh Fifty Thousand only)
Under the Head of Account 2-2415
T.C
Registered as no EE(D.D.)/AS/232/19-20 Subject to conditions contained in Enclosed Memo No EE/DD/AS/232/19-20 Dt: 06/03/20

AE. (DASARAHA... Exe...

ನಂ.CE/DZ/TS/180/18-19 ದಿನಾಂಕ : 22/02/19
ರೂ.250.00Lakh
(Two fifty lakh only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀ...

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬ.ಜ.ಬ.ಮ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು